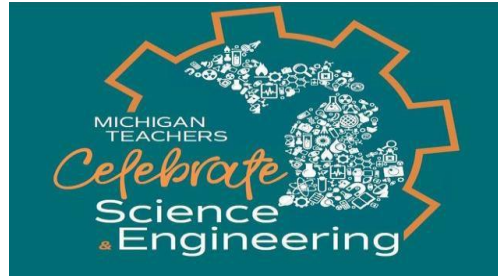


Michigan Science Teachers Association Pre-Conference

Attendees at the MSTTA Pre-Conference will explore a variety of relevant topics in greater depth. These full and half day workshops provide science educators with the opportunity to learn from master teachers and leading experts in the field of science education and research.

Time	Title	Presenters	Description	Room
8:30am-12:00pm	Assessment in a Three-Dimensional Classroom	Jim Clark & Samantha Johnson, Next Gen Science Innovators	<p>This workshop provides a deeper dive into NGSS assessments. We will start by looking at the purpose of different types of assessments, and how to design performance tasks and items for each. Participants will then receive tools to analyze the three-dimensionality of their current formative and current summative assessments, and will spend time revising so they are more aligned to NGSS performance expectations. Participants will leave with sample assessments, and NGSS revisions of their own!</p> <p>Note: Registration for this session includes lunch.</p>	Vandenberg B



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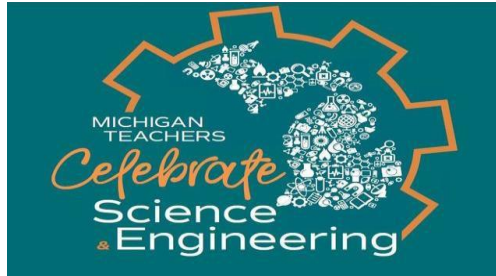
Time	Title	Presenters	Description	Room
12:45pm-4:00pm	Three-Dimensional Learning... What does it look like in my classroom?	Jim Clark & Samantha Johnson, Next Gen Science Innovators	<p>This session will assume that participants have a working knowledge of the three dimensions of NGSS, and will spend very little time reviewing what they mean, as well as what it means for a lesson to be phenomena-driven. Instead, we will be looking at knowledge in use.</p> <p>Note: Registration for this session includes lunch.</p>	Vandenberg B



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Time	Title	Presenters	Description	Room
8:30am-4:00pm	K-8 Engineering in Science? How, What, When?	<p>Christine Cunningham, PhD Founding Director, EiE Vice President Museum of Science</p> <p>Janet Kolodner, PhD Visiting Professor and Special Projects, Lynch School of Education, Boston College Professor Emerita, Georgia Tech</p>	 <p>The Framework for K-12 Science Education and the Michigan Science Standards include Engineering as part of science learning. Why is this? How do we support teachers and others as they work to include the Engineering expectations in science classrooms, K-8? This pre-conference Leadership session will include explanation of how engineering can support science learning, what engineering means in the Framework, and what examples of high-quality engineering in K-8 might look like as it is implementing. The facilitators of this workshop are leaders in engineering education and will bring a broad perspective of the role of engineering in student learning. Join us for this pre-conference session that will challenge us to think differently.</p> <p><i>*This pre-conference session is supported by the Michigan Mathematics and Science Leadership Network and the TESLA grant, provided to the MMSLN by the Michigan Department of Education.</i></p> <p>Note: Registration for this session includes coffee/tea service and lunch</p>	Vandenberg A



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Time	Title	Presenters	Description	Room
8:30am-4:00pm	Introducing ML-PBL: NGSS- and CCSS-Focused Elementary Project- Based Learning Units	Joseph Krajcik, Emily Miller, Deborah Peek-Brown & Susan Codere, CREATE for STEM at MSU	<p>Bring MSS/NGSS to life in your classroom. Experience ML-PBL: Project-Based NGSS-aligned curriculum/instructional units, vetted by Achieve, that engage students in making sense of phenomena and solving problems. Teachers/Leaders will have full access to two units and experience 3D learning in the context of PBL, including embedded integrated literacy and mathematics, language development, productive discourse, and SEL/Equity supports. Hear from MI teachers how ML-PBL has changed their teaching practice and reignited a love of teaching science.</p> <p>Note: Registration for this session includes lunch.</p>	Ruby